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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/081,109	02/25/2002	Shinsuke Sakamoto	4329.2270-01 4805			
22852	7590 09/24/2003					
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			EXAMINER			
LLP 1300 I STRE		LEE, EUGENE				
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER		
			2815			
				DATE MAILED: 09/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/081,109	SAKAMOTO ET AL.				
		Examiner	Art Unit				
		Eugene Lee	2815				
Th MAILING DATE of this com Period for Reply	munication app	ars on the cov r sh et with the c	correspondenc ac	idress			
A SHORTENED STATUTORY PERIO	OD EOD DEDLA	/ IS SET TO EVRIRE A MONTH	C) EDOM				
THE MAILING DATE OF THIS COMN - Extensions of time may be available under the pro- after SIX (6) MONTHS from the mailing date of this - If the period for reply specified above is less than to - If NO period for reply is specified above, the maxim - Failure to reply within the set or extended period for - Any reply received by the Office later than three maximed patent term adjustment. See 37 CFR 1.704 Status	MUNICATION. visions of 37 CFR 1.13 communication. hirty (30) days, a reply ur reply will, by statute, onths after the mailing	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).				
	(a) filed on A2 S	Contombor 2002					
1) ■ Responsive to communication2a) □ This action is FINAL.		is action is non-final.					
, 	•		roccourtion as to th	ho morito is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1,6-8,10 and 15-20 is.	are pending in	the application.					
4a) Of the above claim(s)	is/are withdray	vn from consideration.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,6-8,10 and 15-20</u> is/	are rejected.						
7) Claim(s) is/are objected	to.						
8) Claim(s) are subject to r	estriction and/o	r election requirement.					
Application Papers							
9)☐ The specification is objected to l	•						
10)⊠ The drawing(s) filed on <u>25 February 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction	n filed on	_is: a)□ approved b)□ disappro	oved by the Examir	ner.			
If approved, corrected drawings a	•	•					
12)☐ The oath or declaration is object	ed to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 12	•						
13) Acknowledgment is made of a	claim for foreigr	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a)□ All b)□ Some * c)□ None	e of:						
 Certified copies of the pr 	ority documents	s have been received.					
- , ,	•	s have been received in Applicat					
3. Copies of the certified co application from the l* See the attached detailed Office	nternational Bu	rity documents have been receiver reau (PCT Rule 17.2(a)). of the certified copies not receive		Stage			
14)☐ Acknowledgment is made of a cl	aim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisiona	al application).			

U.S. Patent and Trademark Office PTOL-326 (Rev. 04-01)

Notice of References Cited (PTO-892)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Attachment(s)

6) Other:

a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

4) Interview Summary (PTO-413) Paper No(s).
5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/2/03 has been entered.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a first wiring comprising one end positioned in said first pad and comprising the other end positioned in the peripheral portion of the inner region of the chip, and a second wiring comprising one end positioned in the second pad and comprising the other end positioned in the peripheral portion of the inner region of the chip must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1, 6 thru 8, 10, and 15 thru 20 are rejected under 35 U.S.C. 112, second

paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject

matter which applicant regards as the invention.

It is unclear how a first wiring comprises the other end positioned in the peripheral portion of the inner region of the chip, and a second wiring comprises the other end positioned in the peripheral portion of the inner region of the chip. In FIGs. 1 and 2, it

appears that the other end of the first wiring is positioned (over via 15) in the chip outermost

peripheral area and not in the inner region of the chip (chip inner area), and the other end of the

second wiring is positioned (over via 18) in the chip outermost peripheral area and not in the

inner region of the chip (chip inner area).

It is unclear what the referring to in the limitation "a first pad arranged on a wiring level different from said first I/O slot and arranged above the first I/O slot without being connected to the first I/O slot." In FIG. 1, it appears that the first pad 12a is part of first I/O slot 11a and is therefore "connected" to the first I/O slot.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Insofar as definite, claims 1, 6 thru 8, 10, and 15 thru 20 are rejected under 35

U.S.C. 103(a) as being unpatentable over admitted prior art in view of Janai et al. '967. The admitted prior art discloses (see, for example, FIG. 4) a semiconductor integrated circuit device comprising a first I/O slot 11a, second I/O slot 11b, first pad 12a, second pad 12b, first wiring 14, and second wiring 17. The admitted prior art does not disclose a third wiring and a fourth wiring. However, Janai shows (see, for example, FIG. 1A) an integrated circuit device comprising horizontal metal strips M1 and vertical metal strips (third and fourth wiring) M2. The metal strips are formed on different levels by way of vias. This arrangement accommodates a large number of interconnecting lines and allows specific routing interconnections to be made. See, for example, columns 1 and 2. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to include the vertical metal strips of Janai's invention in order to customize a semiconductor device (without changing the basic metal wiring pattern) without increasing its general complexity.

Response to Arguments

7. Applicant's arguments with respect to claims 1, 6-8, 10, and 15-20 have been considered but are most in view of the new ground(s) of rejection.

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INFORMATION ON HOW TO CONTACT THE USPTO

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 703-305-5695. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 703-308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Eugene Lee September 21, 2003

> SUDERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800